Thunderhead Website
thunderhead.gsfc.nasa.gov

Luther Lighty
NASA/GSFC

Purpose of Website

- Supply general information to users
- User support
- View computational results
- Recruitment

General Information

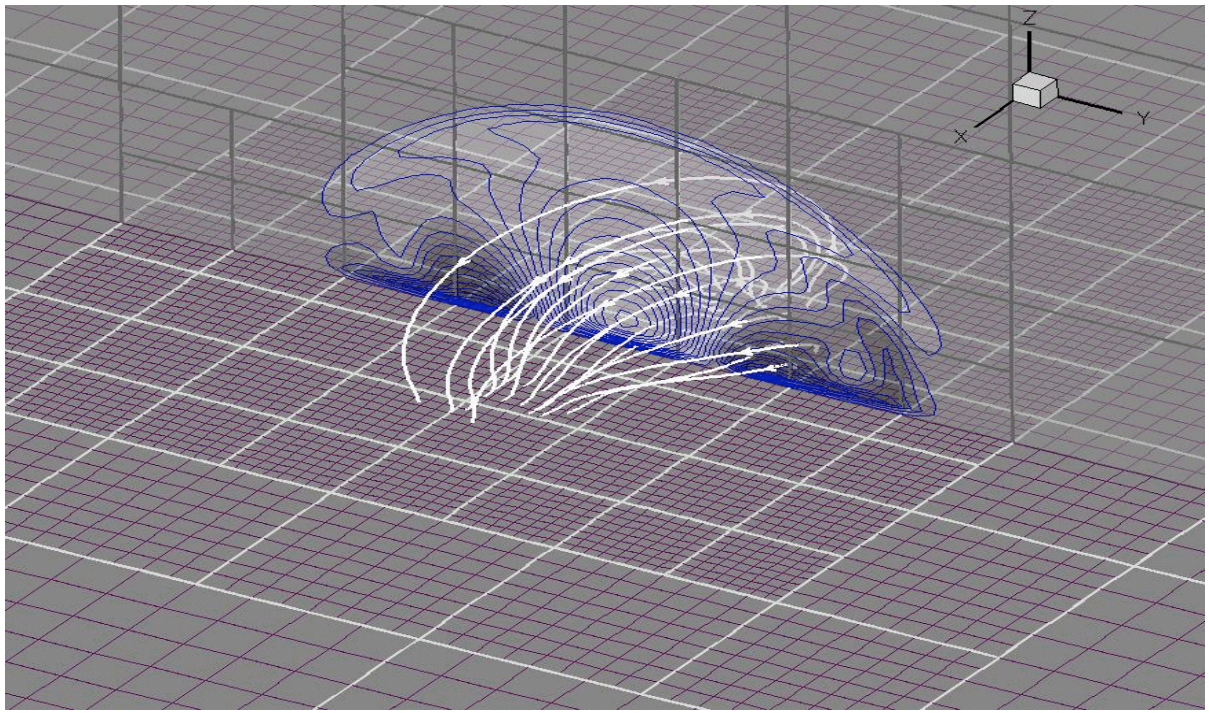
- Hardware specifications
- Benchmarks
- Software
- System status
- Points of Contact

User Support

- Detailing procedures for obtaining a Thunderhead account
- User's guide
- Answers to Frequently Asked Questions

View computational results

- Gallery of scientific results will show featured visualizations of jobs run on Thunderhead.



Recruitment

- Inform users Thunderhead will eventually be included in NASA grid activities and the "Lambda Rail"
- Request Thunderhead users place links to the Thunderhead web site on their home pages, if applicable.

Thunderhead Website Redesign

- Strict adherence to all NASA web policies and procedures.
- NASA Portal affinity (NASA Look and Feel)

Current Website

The Commodity Cluster Computing Project

NASA/Goddard Space Flight Center

Thunderhead

Last Update: 04/30/2003 01:39:53 PM

SECTION I: GETTING STARTED

Survival Guide

Accounts

Environment

MPI

LTM

News

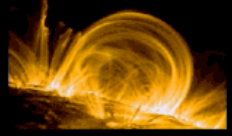
Welcome to Thunderhead's website.

Thunderhead is a 512-processor Commodity Cluster located at NASA/Goddard Space Flight Center. It features 512 2.4Ghz Pentium 4 Xeons, 256Gb DDR memory, 20Tb disk space and 2.2Gpbs myrinet fiber interconnect.

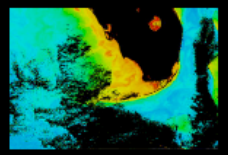
The cluster's goal as prototype research- production high performance system is to assist principal scientists and investigators from NASA and other educational institutions in their research.

Here are a summary of features of Thunderhead:

Theoretical peak performance:	2.5Tflop
Linpack Benchmark:	1.2Tflop
Job management/scheduler:	LTM
Operating System:	Redhat 7.3
Compilers (F90):	NAG, PG, Intel
Compilers (C++):	Gcc, Intel
Parallel file system	PVFS



NASA/Goddard Space Flight Center
High Performance Computing



HYDRA Cluster:
Thunderhead, Medusa, Orka, Pivot, BBBLUE

Website Redesign Prototype